

# Mars M5

EL-570~590M8-78H

PERC Technology

Mono Crystalline PV Modules

156

CELLS



Micro-crack Free



PID Resistant



Salt Mist and Ammonia Corrosion Resistant



German Engineering



Tier 1 Choice of Materials

## GERMAN QUALITY

East Lux solar panels are made from top grade materials, automated robotic lines, German technology and standards, making the quality difference.

## PERFORMANCE& INVESTMENT GURANTEE

East Lux assures high investment, security and warranty claims by providing linear performance guarantee of 25 years and 12 years of product warranty.

## Reliable Quality

- IEC61215, IEC61730(2016), IEC TS 62804-1-1:2020 (Anti PID)
- ISO 9001:2008 Quality management systems
- ISO 14001:2004 Environmental management systems
- BS OHSAS 18001: 2007 Occupational health and safety management system
- Positive power tolerance: 0~+5W
- 100% Triple EL inspection ensure free of defects



## PLUS SORTING

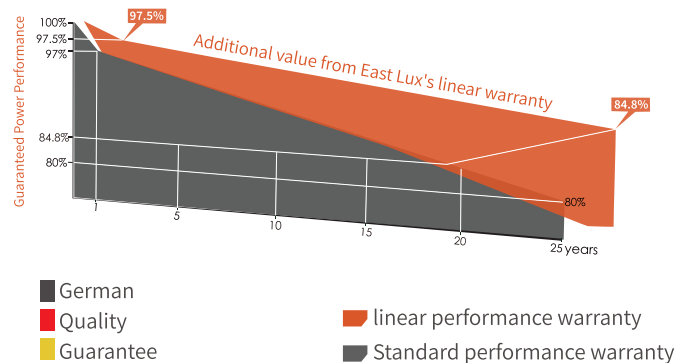
0~+5W positive sorting system to assure high output.

## STABLE& STRONG

Capable to bear heavy snow loads up to 5400pa and wind loads up to 2400pa.

## Linear Performance Warranty

12 years product warranty  
25 years linear power warranty



# SPECIFICATIONS

Module Type	EL-570M5-78H		EL-575M5-78H		EL-580M5-78H		EL-585M5-78H		EL-590M5-78H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax)	570W	433W	575W	437W	580W	441W	585W	445W	590W	449W
Open Circuit Voltage (Voc)	50.88V	49.02V	51.02V	49.25V	51.15V	49.47V	51.29V	49.69V	51.42V	49.91V
Short circuit Current (Isc)	14.18A	11.23A	14.25A	11.27A	14.32A	11.31A	14.39A	11.35A	14.46A	11.39AA
Peak Power Voltage (Vmpp)	42.89V	40.81V	43.04V	41.03V	43.19V	41.25V	43.33V	41.47V	43.48V	41.69VV
Peak Power Current (mpp)	13.29A	10.61A	13.36A	10.65A	14.43A	10.69A	13.5A	10.73A	13.57A	10.77A
Component Efficiency (%)	20.39%		20.57%		20.75%		20.93%		21.11%	

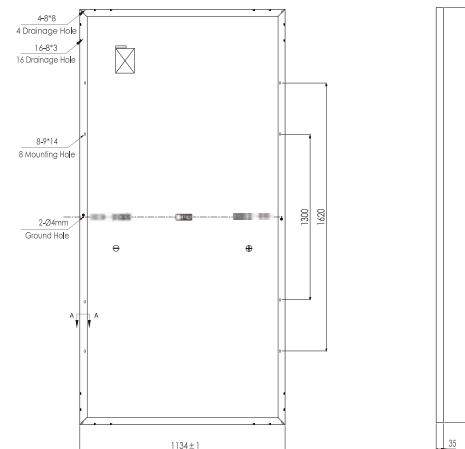
STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

NMOT(Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Temperature Characteristics

Standard Working Temperature (Noct)	45±2°C
Peak Power Temperature Coefficient	-0.36%/°C
Temperature Coefficient of Open Circuit Voltage	-0.28%/°C
Short-circuit Current Temperature Coefficient	+0.05%/°C
Working Temperature	-40°C to ~+85°C
Maximum System Voltage	DC 1500V (IEC)
Maximum Fuse Rating	25A
Power Tolerance	0/+5W

## Module Dimensions(mm)



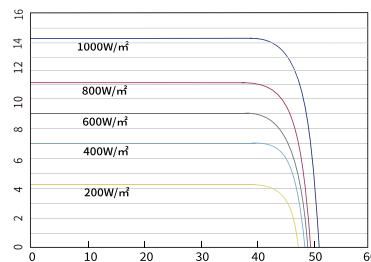
Specifications in this datasheet are subject to change without prior notice.

## Mechanical Data




Cell Type	182*91mm Mono
Cell Orientation	156 ( 6X26 )
Module Dimension	2465*1134*35mm
Weight	30.5kg
Front	3.2mm high transmittance, reinforced glass
Aluminum Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes)
	4.0mm <sup>2</sup>
Connecting Cable	Cable length
	300mm (+) /400mm (-)
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa

## I-V Curve





Current-Voltage Curve (575W)  
Current (A)



### STC

-  Irradiance 1000W/m<sup>2</sup>
-  Cell Temperature 25°C
-  AM=1.5

### NMOT

-  Irradiance 800W/m<sup>2</sup>
-  Ambient Temperature 20°C
-  Wind Speed 1m/s
-  AM=1.5

## Packing Configuration

Modules per Pallet: 31pcs

Modules per 40' HQ Container: 558pcs